

FIG. 1

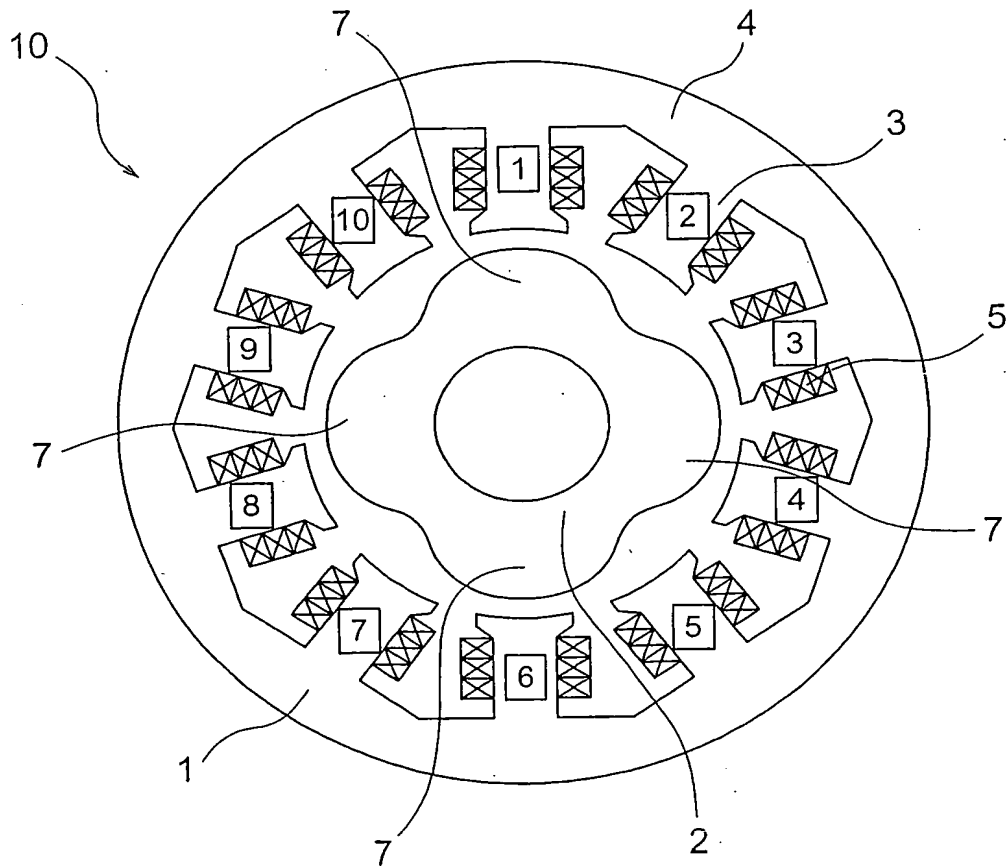


FIG. 2

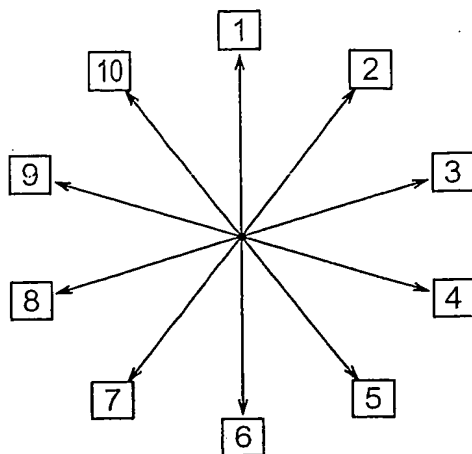


FIG. 3

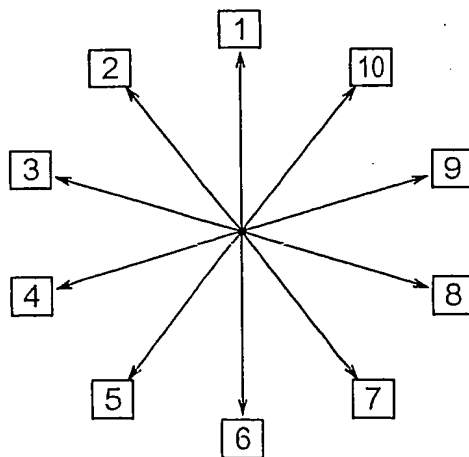


FIG. 4

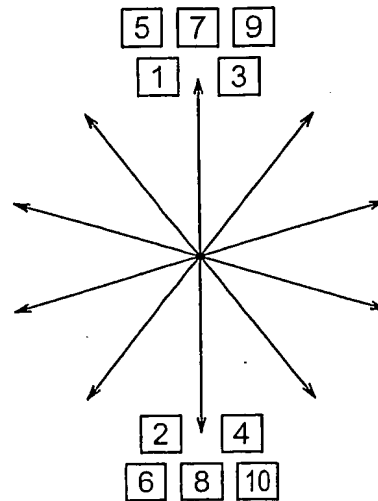


FIG. 5

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0
FIRST PHASE	1.0	0.0	0.0	0.0	-1.0	0.0	-1.0	0.0	0.0	0.0
SECOND PHASE	0.0	0.0	-1.0	0.0	-1.0	0.0	0.0	0.0	1.0	0.0
THIRD PHASE	-1.0	0.0	-1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
FOURTH PHASE	-1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	-1.0	0.0
FIFTH PHASE	0.0	0.0	1.0	0.0	0.0	0.0	-1.0	0.0	-1.0	0.0

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FIG. 6

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0	1.0	-1.0
$\alpha$ -PHASE WINDING	2.6180	0.0000	0.8090	0.0000	-2.1180	0.0000	-2.1180	0.0000	0.8090	0.0000
$\beta$ -PHASE WINDING	0.0000	0.0000	-2.4899	0.0000	-1.5388	0.0000	1.5388	0.0000	2.4899	0.0000

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FIG. 7

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	50	-50	50	-50	50	-50	50	-50	50	-50
$\alpha$ -PHASE WINDING	261.80	0.00	80.90	0.00	-211.80	0.00	-211.80	0.00	80.90	0.00
$\beta$ -PHASE WINDING	0.00	0.00	-248.99	0.00	-153.88	0.00	153.88	0.00	248.99	0.00

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FIG. 8

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10
EXCITATION WINDING	50	-50	50	-50	50	-50	50	-50	50	-50
$\alpha$ -PHASE WINDING	262	0	81	0	-212	0	-212	0	81	0
$\beta$ -PHASE WINDING	0	0	-249	0	-154	0	154	0	249	0

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FIG. 9

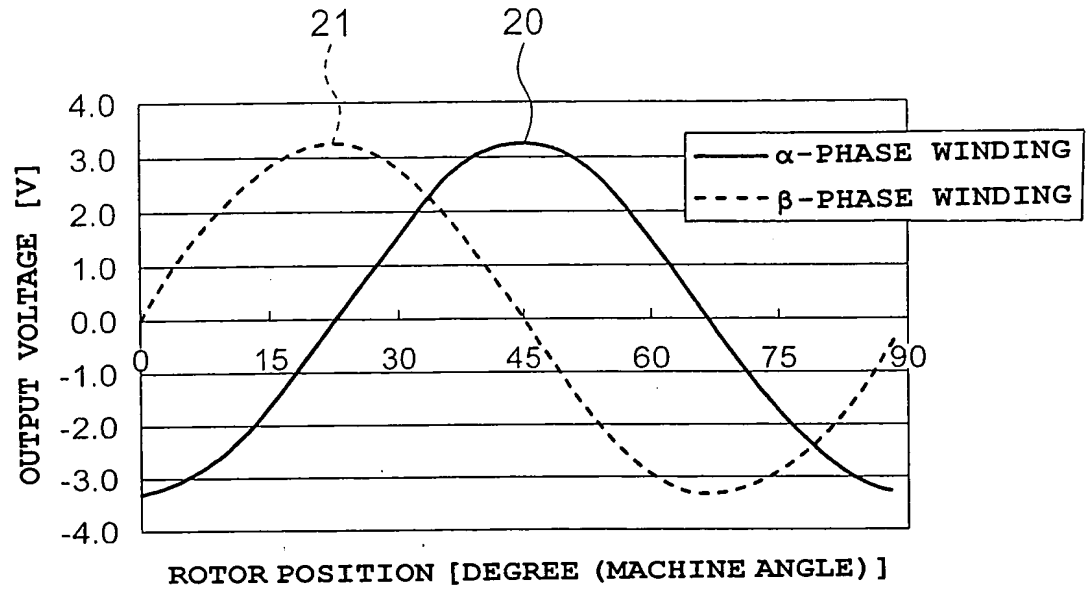
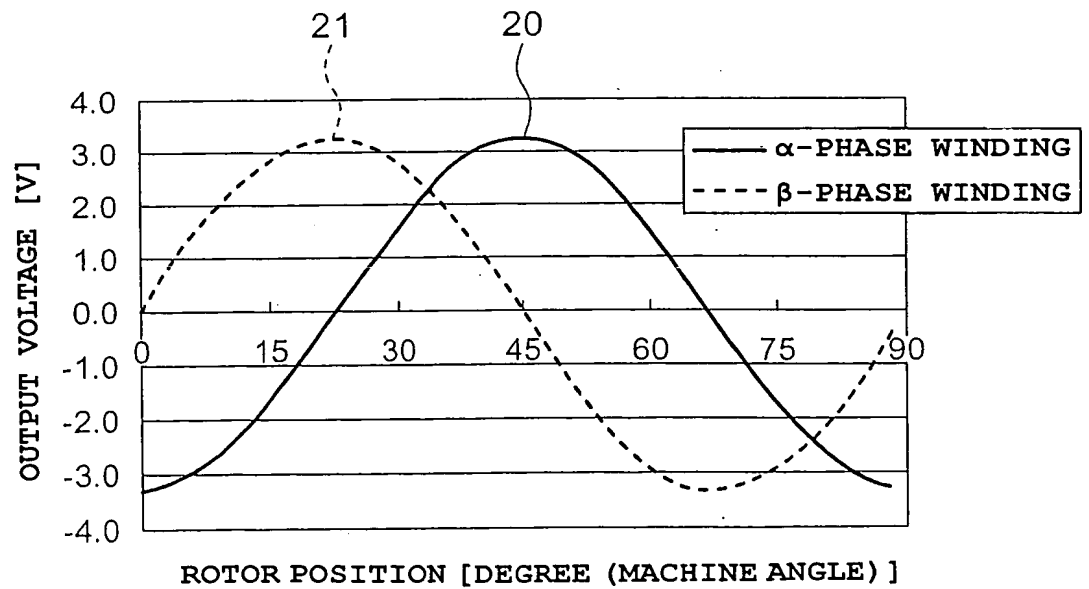


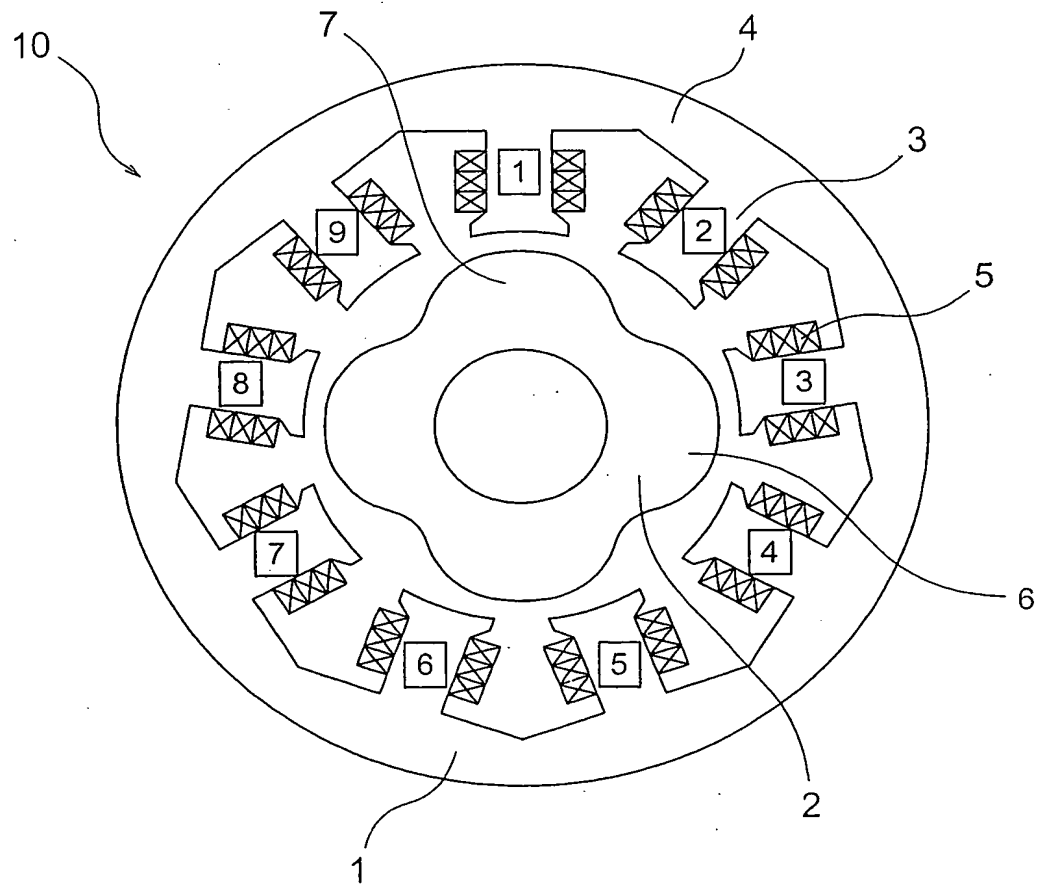
FIG. 10





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FIG. 11



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FIG. 12

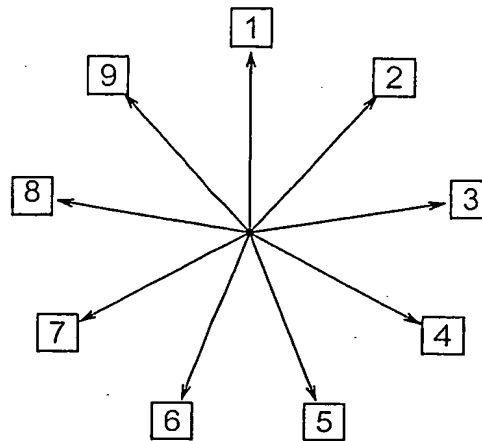
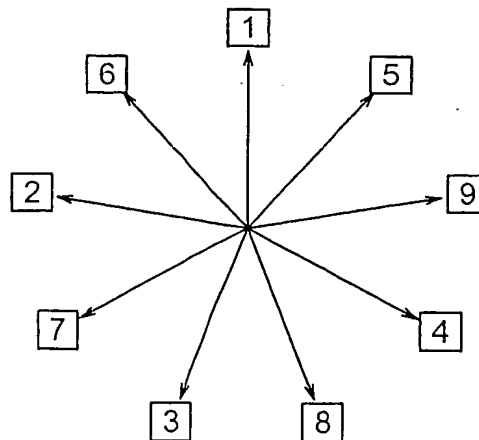


FIG. 13



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FIG. 14

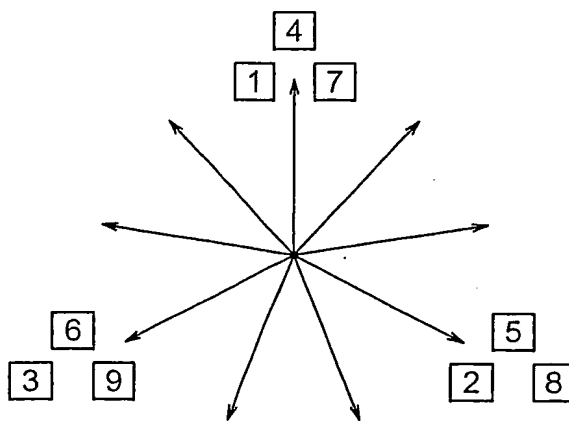


FIG. 15

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE	1.0	0.0	0.0	0.0	-1.0	-1.0	0.0	0.0	0.0
V-PHASE	0.0	0.0	0.0	1.0	0.0	0.0	0.0	-1.0	-1.0
W-PHASE	0.0	-1.0	-1.0	0.0	0.0	0.0	1.0	0.0	0.0

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FIG. 16

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000
$\alpha$ -PHASE WINDING	0.8165	0.4082	0.4082	-0.4082	-0.8165	-0.8165	-0.4082	0.4082	0.4082
$\beta$ -PHASE WINDING	0.0000	0.7071	0.7071	0.7071	0.0000	0.0000	-0.7071	-0.7071	-0.7071

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FIG. 17

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50.00	-25.00	-25.00	50.00	-25.00	-25.00	50.00	-25.00	-25.00
$\alpha$ -PHASE WINDING	122.47	61.24	61.24	-61.24	-122.47	-122.47	-61.24	61.24	61.24
$\beta$ -PHASE WINDING	0.00	106.07	106.07	106.07	0.00	0.00	-106.07	-106.07	-106.07

FIG. 18

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
$\alpha$ -PHASE WINDING	122	61	61	-61	-122	-122	-61	61	61
$\beta$ -PHASE WINDING	0	106	106	106	0	0	-106	-106	-106

FIG. 19

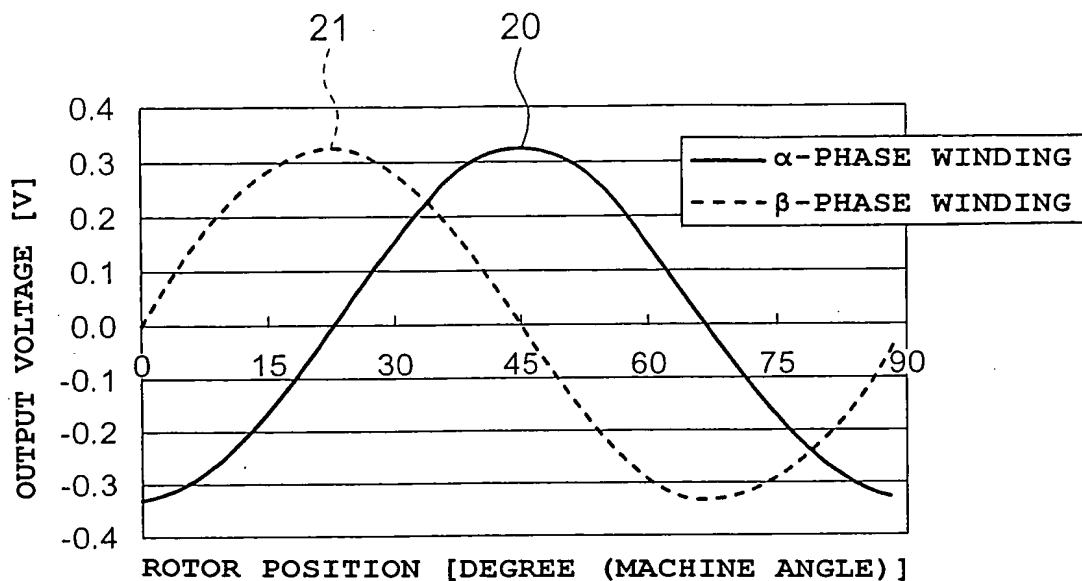
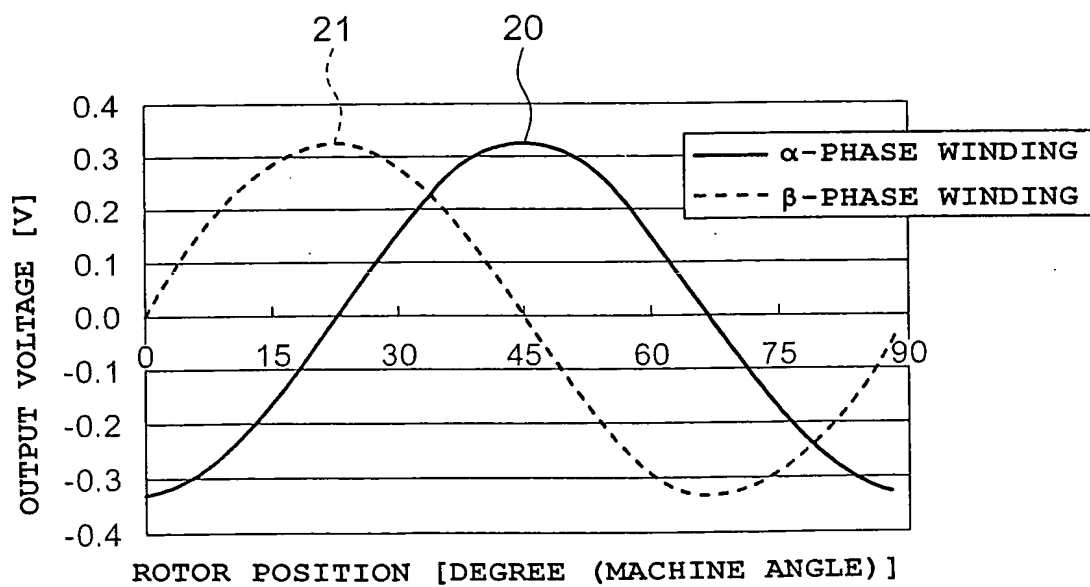


FIG. 20







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FIG. 22

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE	1.0	0.0	0.0	0.0	-1.0	-1.0	0.0	0.0	0.0
V-PHASE	0.0	-1.0	-1.0	0.0	0.0	0.0	1.0	0.0	0.0
W-PHASE	0.0	0.0	0.0	1.0	0.0	0.0	0.0	-1.0	-1.0

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FIG. 23

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000
$\alpha$ -PHASE WINDING	0.8165	0.4082	0.4082	-0.4082	-0.8165	-0.8165	-0.4082	0.4082	0.4082
$\beta$ -PHASE WINDING	0.0000	-0.7071	-0.7071	-0.7071	0.0000	0.0000	0.7071	0.7071	0.7071

FIG. 24

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50.00	-25.00	-25.00	50.00	-25.00	-25.00	50.00	-25.00	-25.00
$\alpha$ -PHASE WINDING	122.47	61.24	61.24	-61.24	-122.47	-122.47	-61.24	61.24	61.24
$\beta$ -PHASE WINDING	0.00	-106.07	-106.07	-106.07	0.00	0.00	106.07	106.07	106.07

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FIG. 25

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
$\alpha$ -PHASE WINDING	122	61	61	-61	-122	-122	-61	61	61
$\beta$ -PHASE WINDING	0	-106	-106	-106	0	0	106	106	106

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FIG. 26

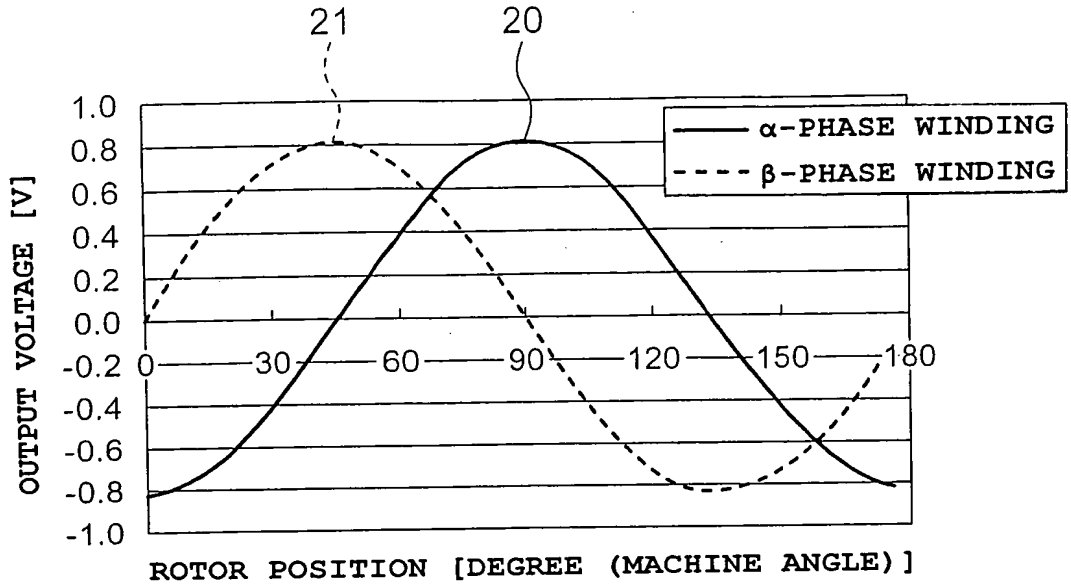


FIG. 27

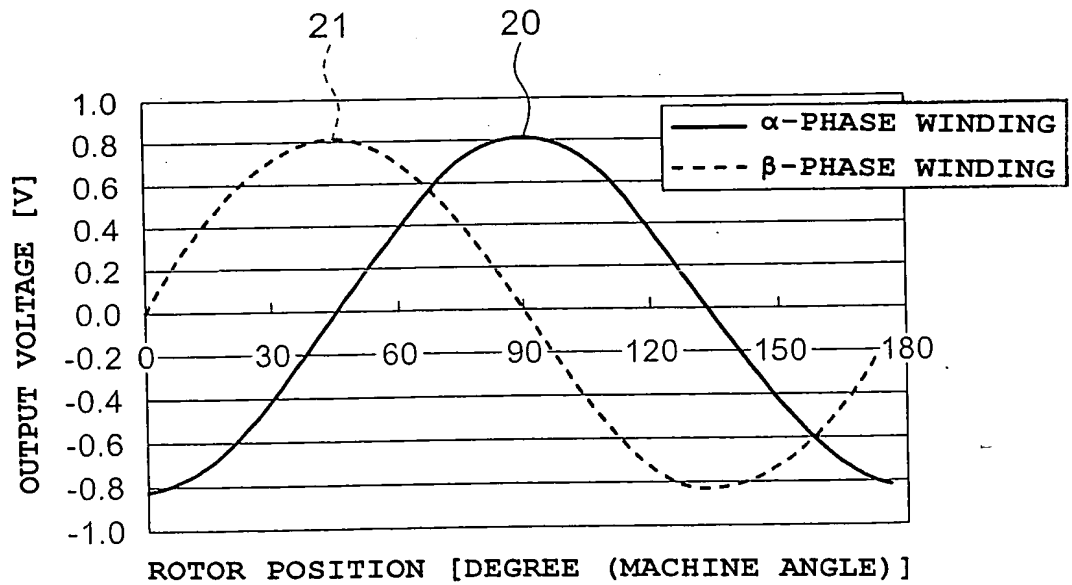


FIG. 28

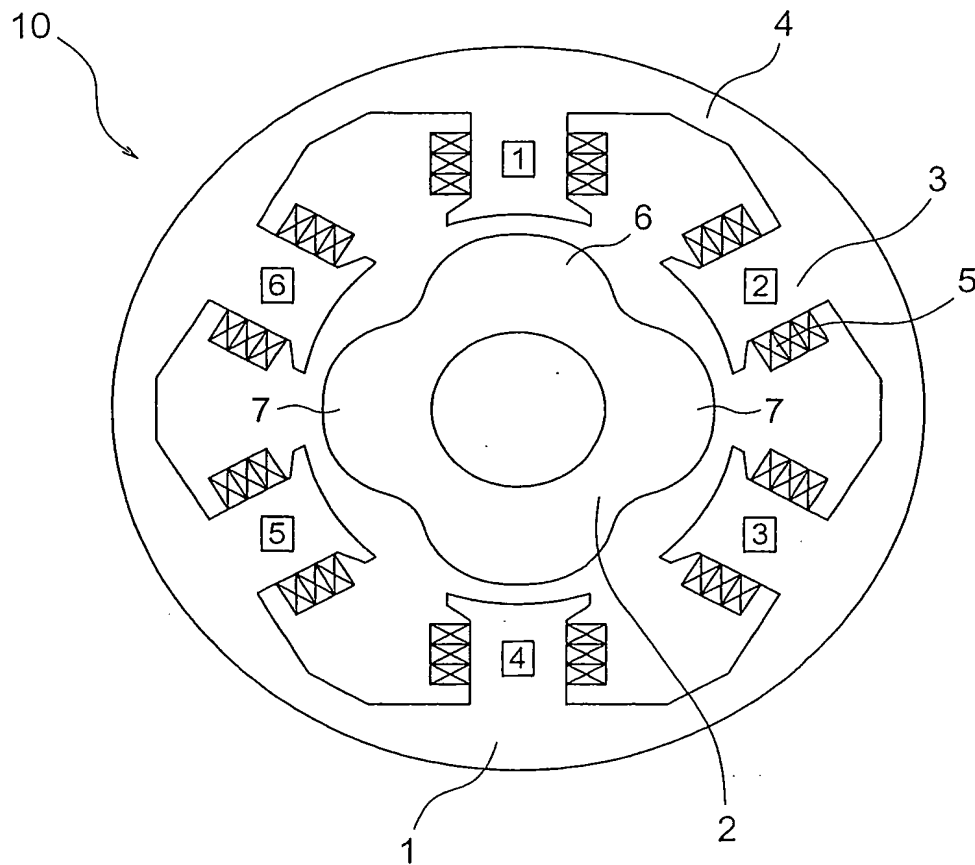


FIG. 29

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0
U-PHASE	1.0	1.0	1.0	0.0	0.0	0.0
V-PHASE	0.0	0.0	1.0	1.0	1.0	0.0
W-PHASE	1.0	0.0	0.0	0.0	1.0	1.0



FIG. 30

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.0000	-1.0000	1.0000	-1.0000	1.0000	-1.0000
$\alpha$ -PHASE WINDING	0.4082	0.8165	0.4082	-0.4082	-0.8165	-0.4082
$\beta$ -PHASE WINDING	-0.7071	0.0000	0.7071	0.7071	0.0000	-0.7071

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FIG. 31

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	50	-50	50	-50	50	-50
$\alpha$ -PHASE WINDING	61	122	61	-61	-122	-61
$\beta$ -PHASE WINDING	-106	0	106	106	0	-106

FIG. 32

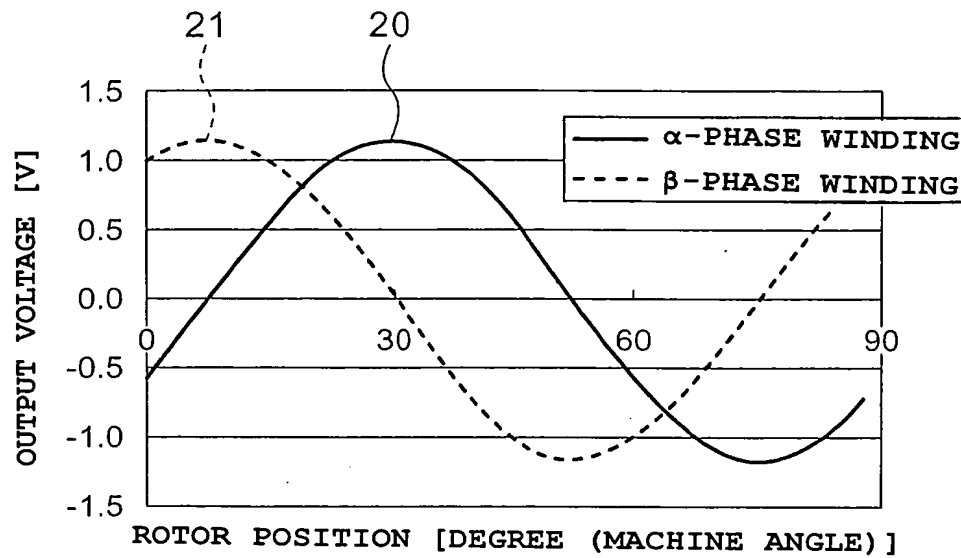


FIG. 33

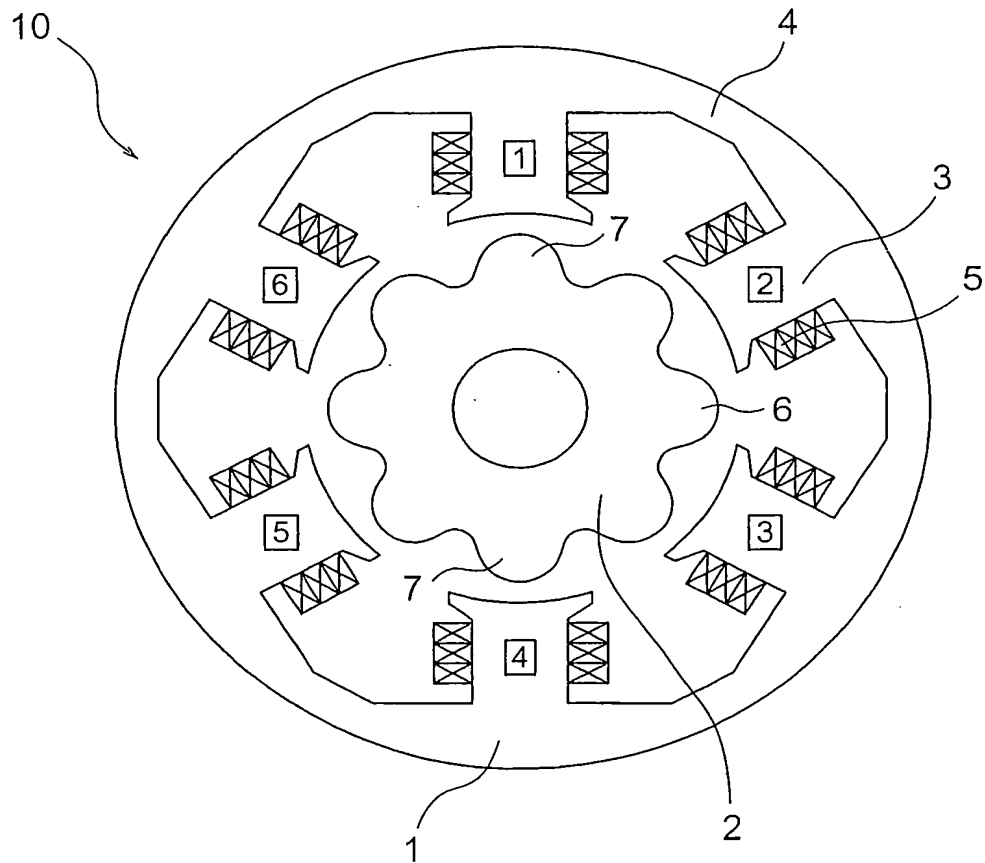


FIG. 34

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.0	-1.0	1.0	-1.0	1.0	-1.0
U-PHASE	1.0	1.0	1.0	0.0	0.0	0.0
V-PHASE	1.0	0.0	0.0	0.0	1.0	1.0
W-PHASE	0.0	0.0	1.0	1.0	1.0	0.0

FIG. 35

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	1.0000	-1.0000	1.0000	-1.0000	1.0000	-1.0000
$\alpha$ -PHASE WINDING	0.4082	0.8165	0.4082	-0.4082	-0.8165	-0.4082
$\beta$ -PHASE WINDING	0.7071	0.0000	-0.7071	-0.7071	0.0000	0.7071

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FIG. 36

TEETH NUMBER	1	2	3	4	5	6
EXCITATION WINDING	50	-50	50	-50	50	-50
$\alpha$ -PHASE WINDING	61	122	61	-61	-122	-61
$\beta$ -PHASE WINDING	106	0	-106	-106	0	106

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FIG. 37

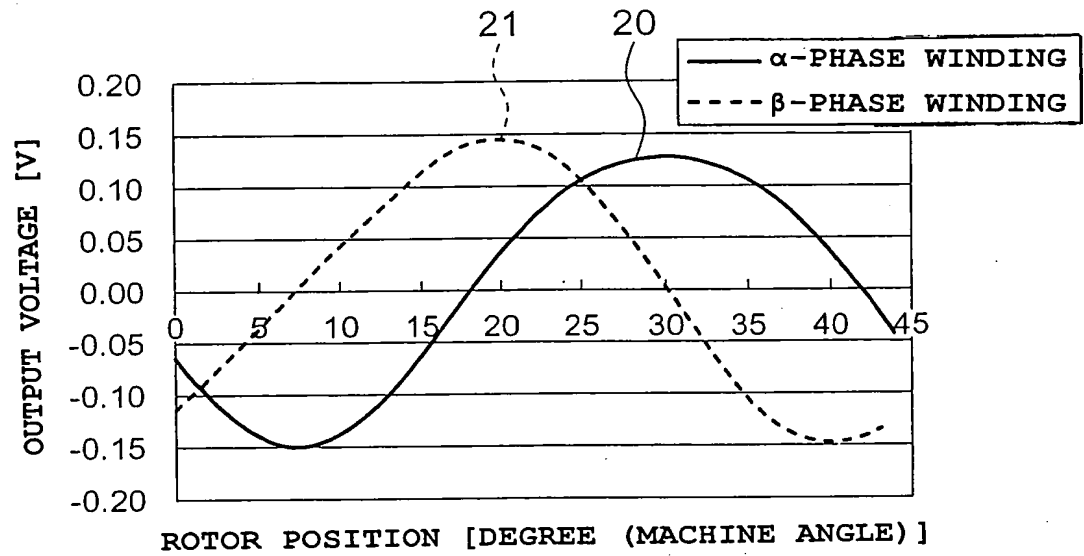




FIG. 38

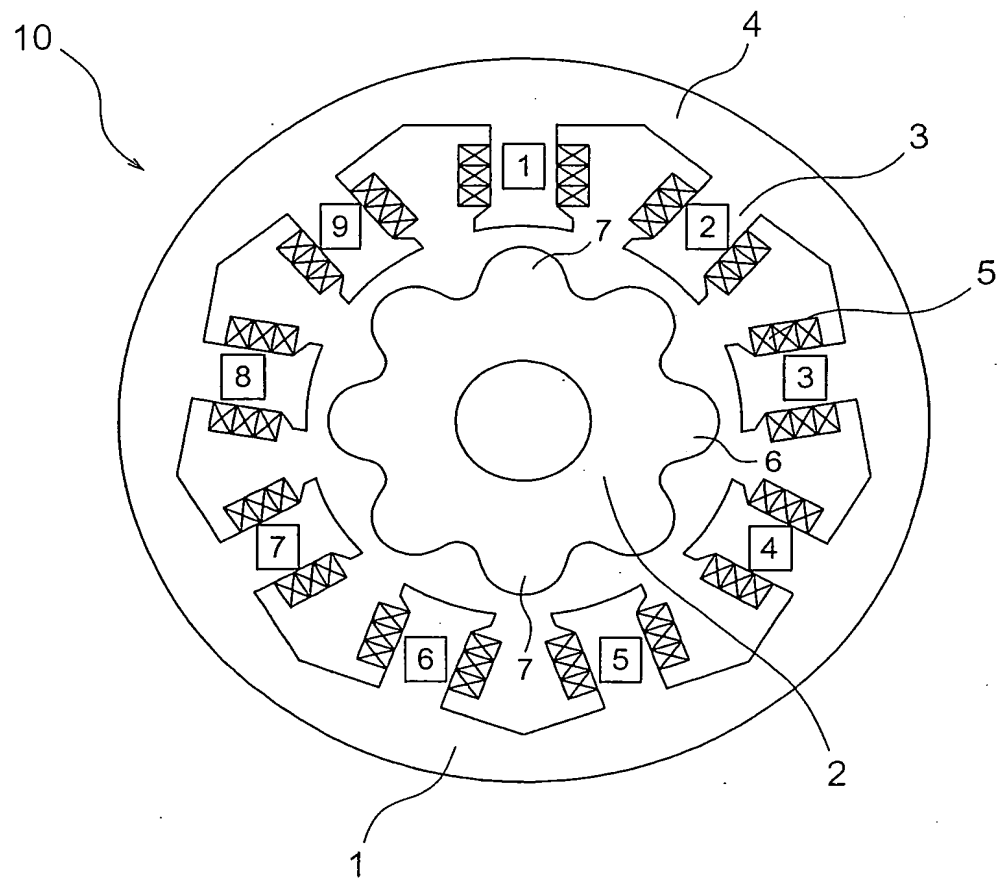


FIG. 39

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE	1.0	-1.0	0.0	0.0	0.0	0.0	0.0	0.0	-1.0
V-PHASE	0.0	0.0	0.0	0.0	0.0	-1.0	1.0	-1.0	0.0
W-PHASE	0.0	0.0	-1.0	1.0	-1.0	0.0	0.0	0.0	0.0

FIG. 40

TEETH NUMBER	1	2	3	4	.5	6	7	8	9
EXCITATION WINDING	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000	1.0000	-0.5000	-0.5000
$\alpha$ -PHASE WINDING	0.8165	-0.8165	0.4082	-0.4082	0.4082	0.4082	-0.4082	0.4082	-0.8165
$\beta$ -PHASE WINDING	0.0000	0.0000	0.7071	-0.7071	0.7071	-0.7071	0.7071	-0.7071	0.0000

FIG. 41

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
$\alpha$ -PHASE WINDING	122	-122	61	-61	61	61	-61	61	-122
$\beta$ -PHASE WINDING	0	0	106	-106	106	-106	106	-106	0

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FIG. 42

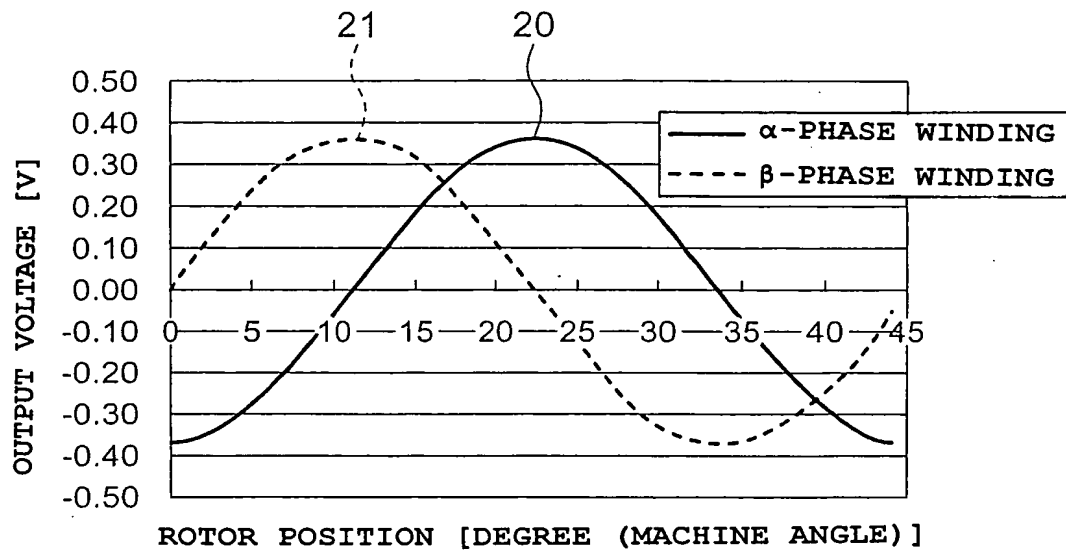
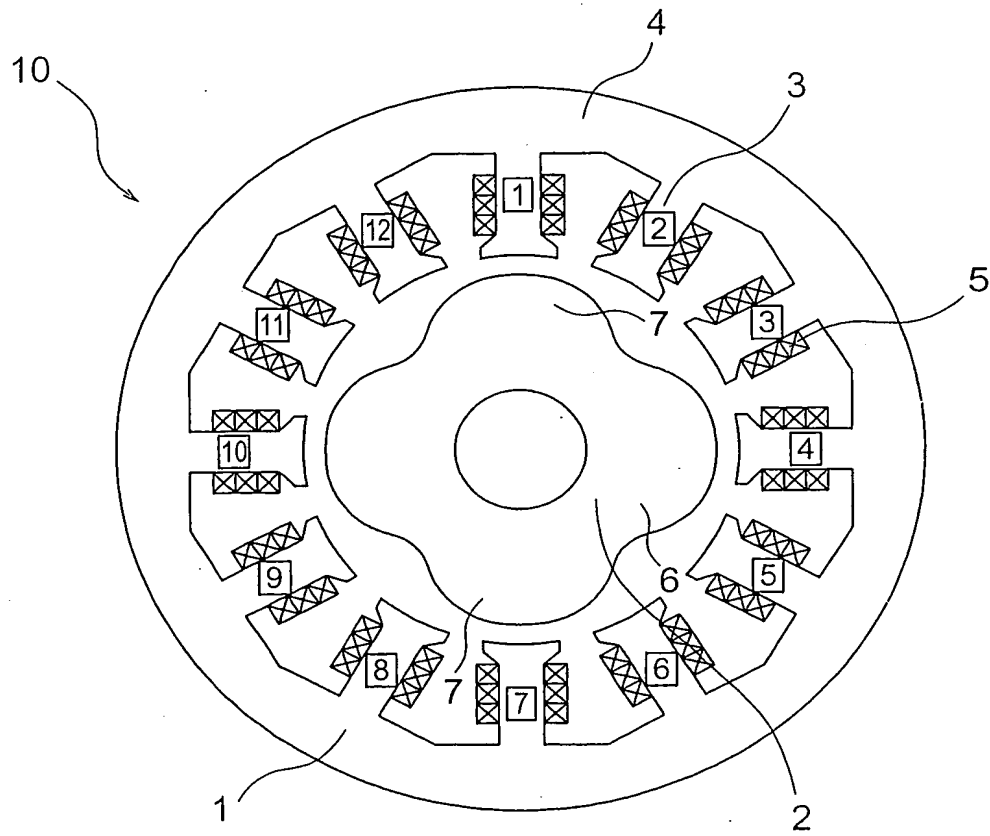


FIG. 43



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FIG. 44

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
U-PHASE WINDING	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V-PHASE WINDING	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
W-PHASE WINDING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0

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FIG. 45

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
$\alpha$ -PHASE WINDING	0.8165	0.8165	0.8165	0.0000	-0.4082	-0.4082	-0.4082	0.0000	-0.4082	-0.4082	-0.4082	0.0000
$\beta$ -PHASE WINDING	0.0000	0.0000	0.0000	0.0000	0.7071	0.7071	0.7071	0.0000	-0.7071	-0.7071	-0.7071	0.0000



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FIG. 46

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
$\alpha$ -PHASE WINDING	122	122	122	0	-61	-61	-61	0	-61	-61	-61	0
$\beta$ -PHASE WINDING	0	0	0	0	106	106	106	0	-106	-106	-106	0

FIG. 47

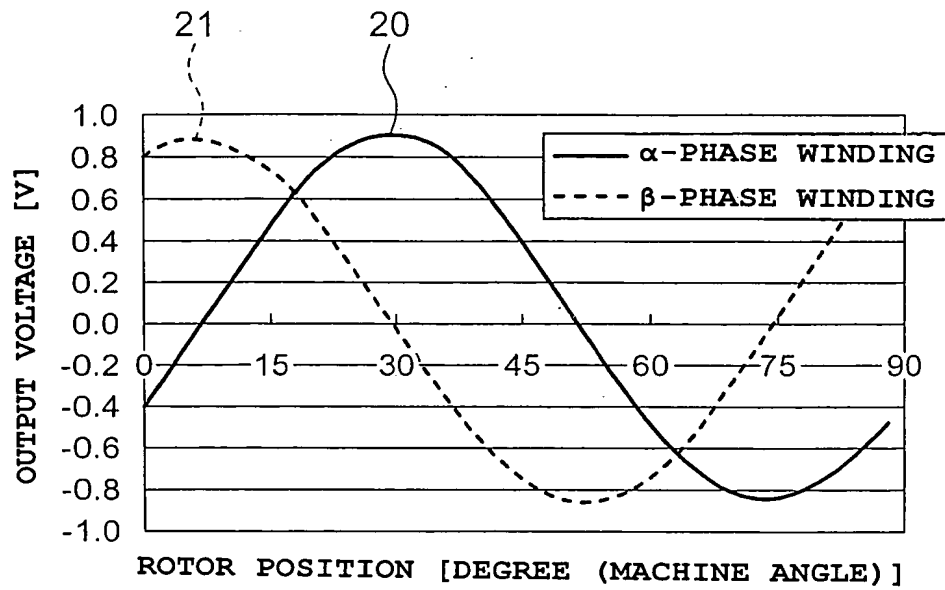
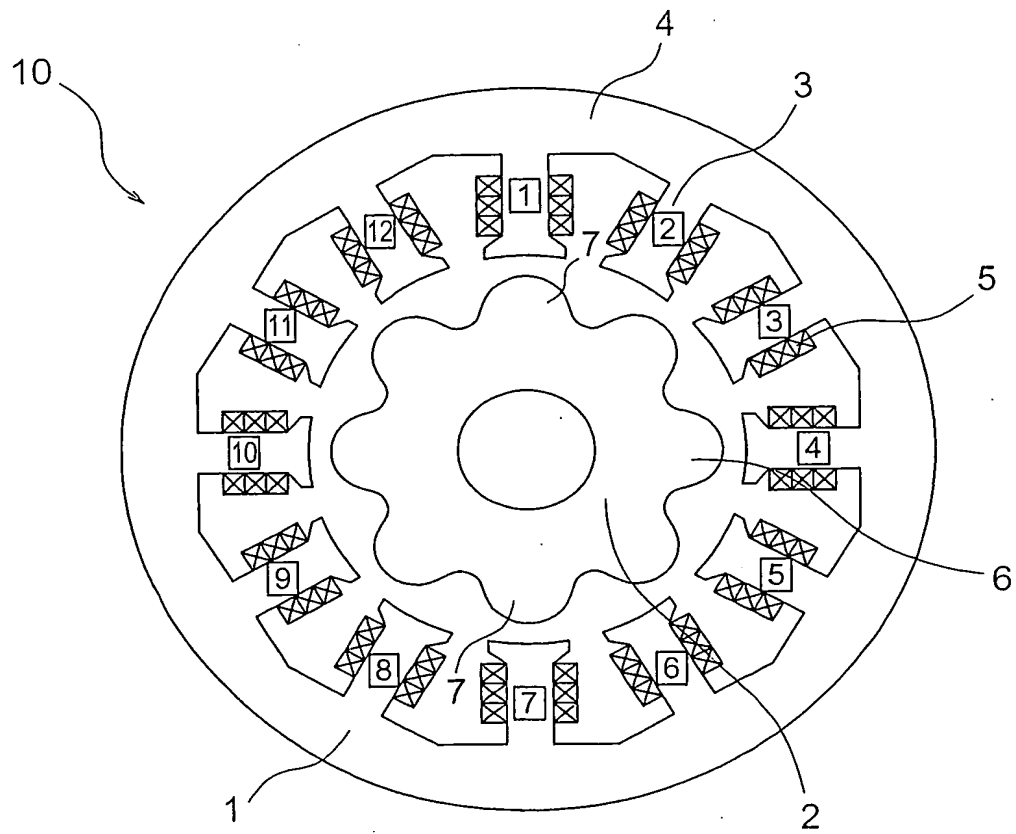


FIG. 48



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FIG. 49

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
U-PHASE WINDING	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V-PHASE WINDING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0
W-PHASE WINDING	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

FIG. 50

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
$\alpha$ -PHASE WINDING	0.8165	0.8165	0.8165	0.0000	-0.4082	-0.4082	-0.4082	0.0000	-0.4082	-0.4082	-0.4082	0.0000
$\beta$ -PHASE WINDING	0.0000	0.0000	0.0000	0.0000	-0.7071	-0.7071	-0.7071	0.0000	0.7071	0.7071	0.7071	0.0000

FIG. 51

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
$\alpha$ -PHASE WINDING	122	122	122	0	-61	-61	-61	0	-61	-61	-61	0
$\beta$ -PHASE WINDING	0	0	0	0	-106	-106	-106	0	106	106	106	0

FIG. 52

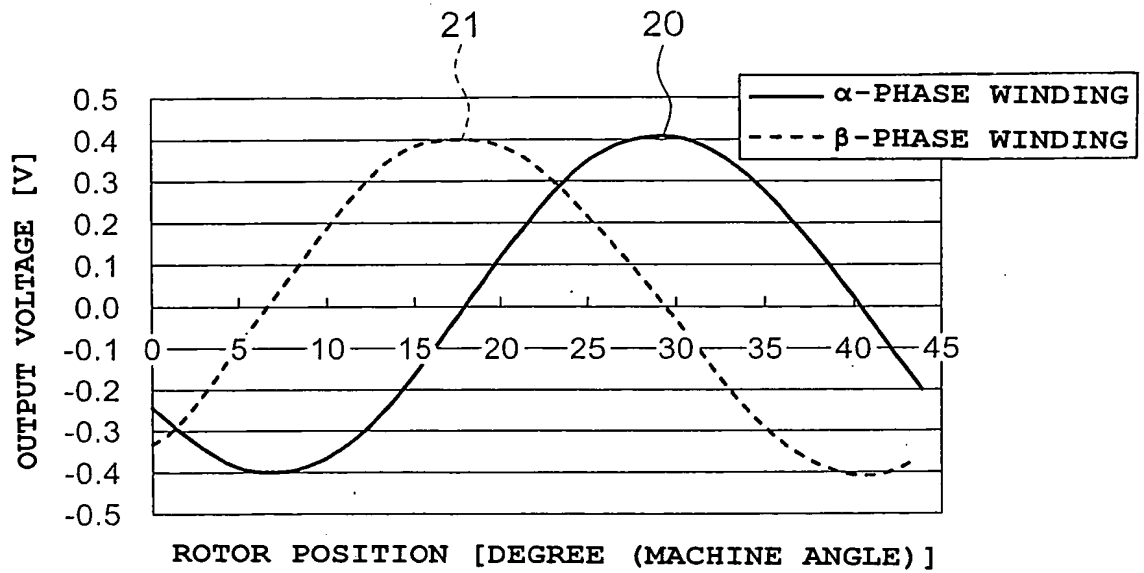
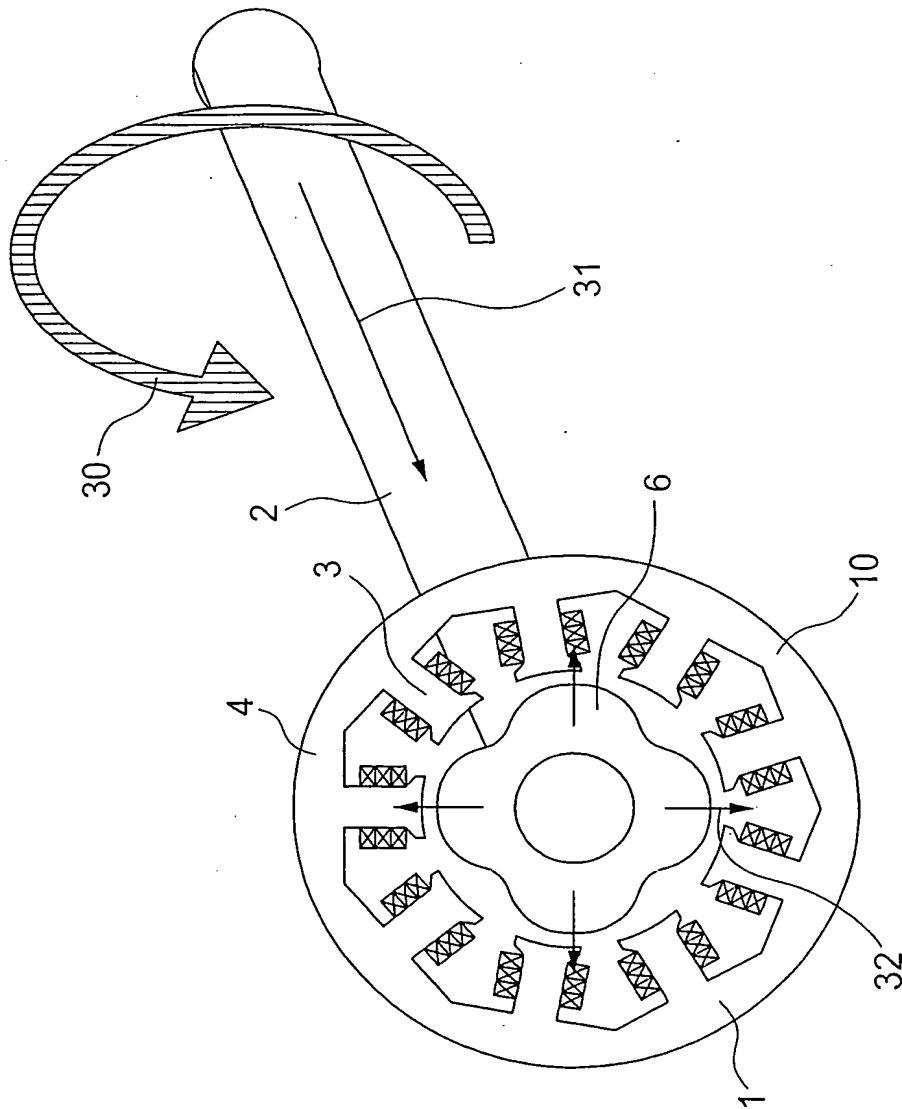


FIG. 53





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FIG. 54

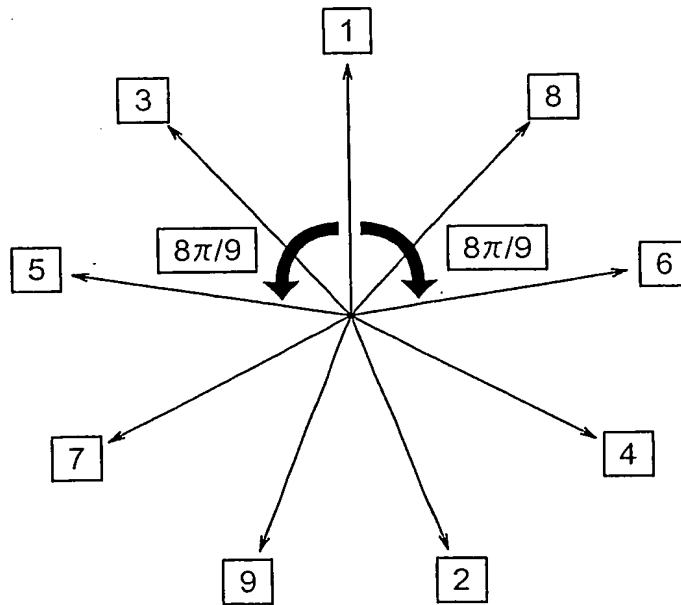


FIG. 55

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
U-PHASE WINDING	$2\cos\frac{4\pi}{9}$	0.0	0.0	0.0	-1.0	-1.0	0.0	0.0	0.0
V-PHASE WINDING	0.0	0.0	0.0	$2\cos\frac{4\pi}{9}$	0.0	0.0	0.0	-1.0	-1.0
W-PHASE WINDING	0.0	-1.0	-1.0	0.0	0.0	0.0	$2\cos\frac{4\pi}{9}$	0.0	0.0

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FIG. 56

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	1.0	-0.5	-0.5	1.0	-0.5	-0.5	1.0	-0.5	-0.5
$\alpha$ -PHASE WINDING	0.2836	0.4082	0.4082	-0.1418	-0.8165	-0.8165	-0.1418	0.4082	0.4082
$\beta$ -PHASE WINDING	0.0000	0.7071	0.7071	0.2456	0.0000	0.0000	-0.2456	-0.7071	-0.7071

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FIG. 57

TEETH NUMBER	1	2	3	4	5	6	7	8	9
EXCITATION WINDING	50	-25	-25	50	-25	-25	50	-25	-25
$\alpha$ -PHASE WINDING	43	61	61	-21	-122	-122	-21	61	61
$\beta$ -PHASE WINDING	0	106	106	37	0	0	-37	-106	-106

FIG. 58

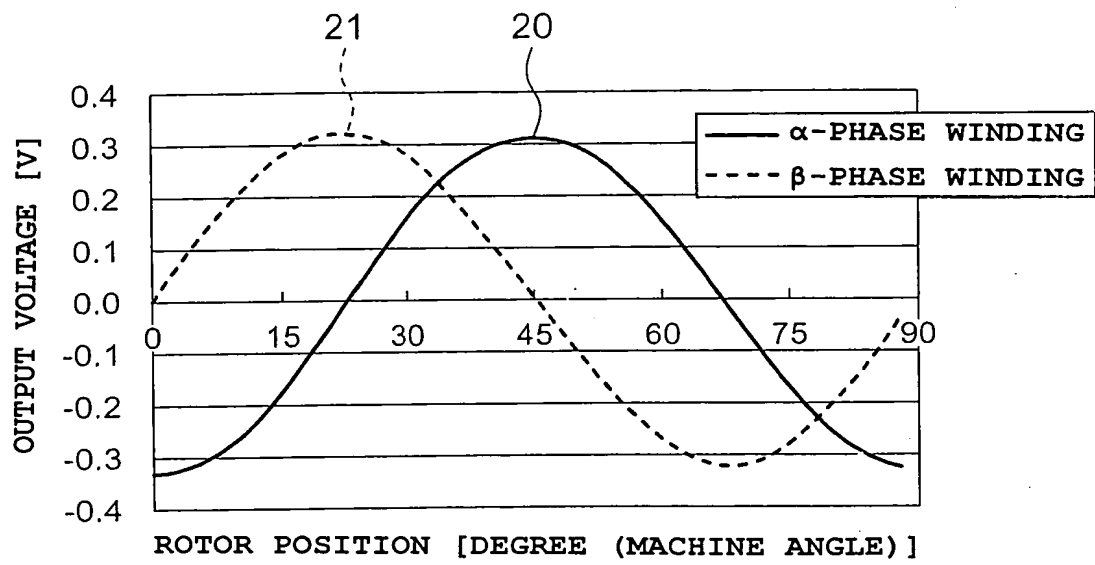


FIG. 59

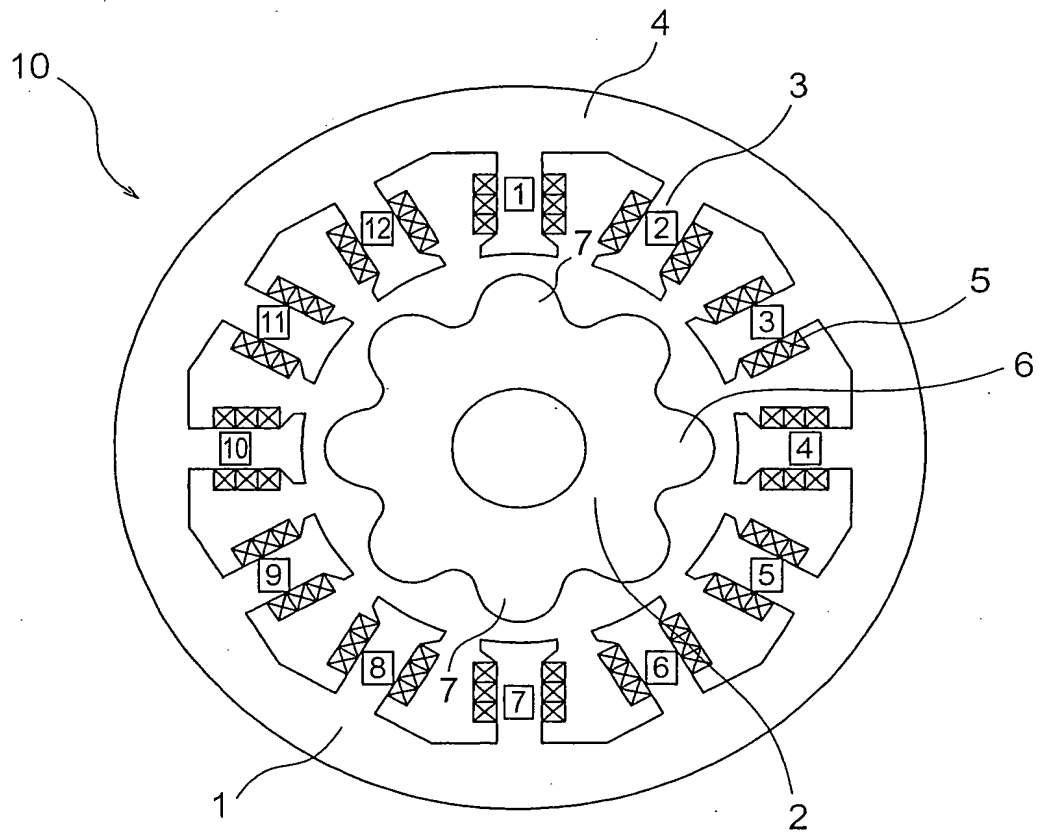


FIG. 60

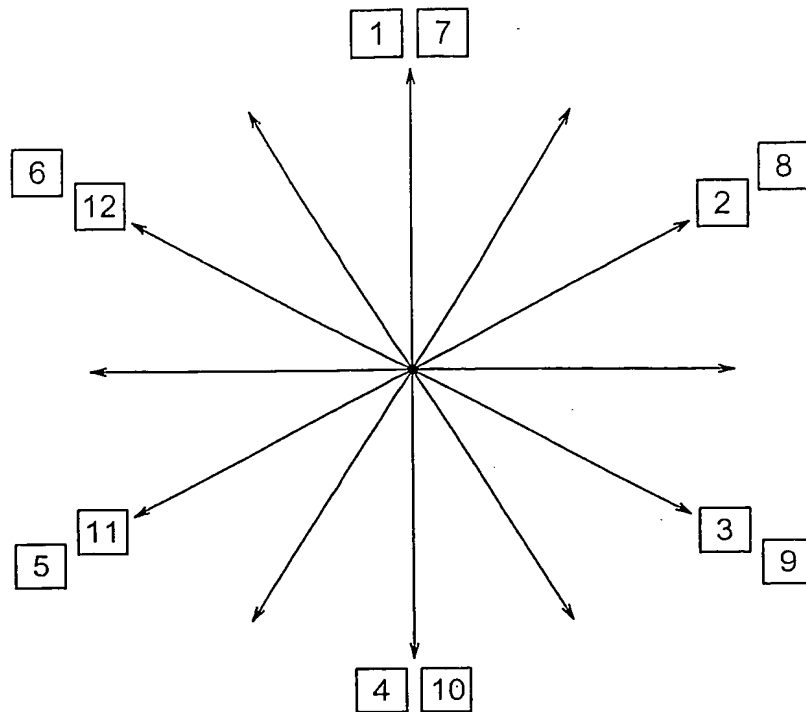
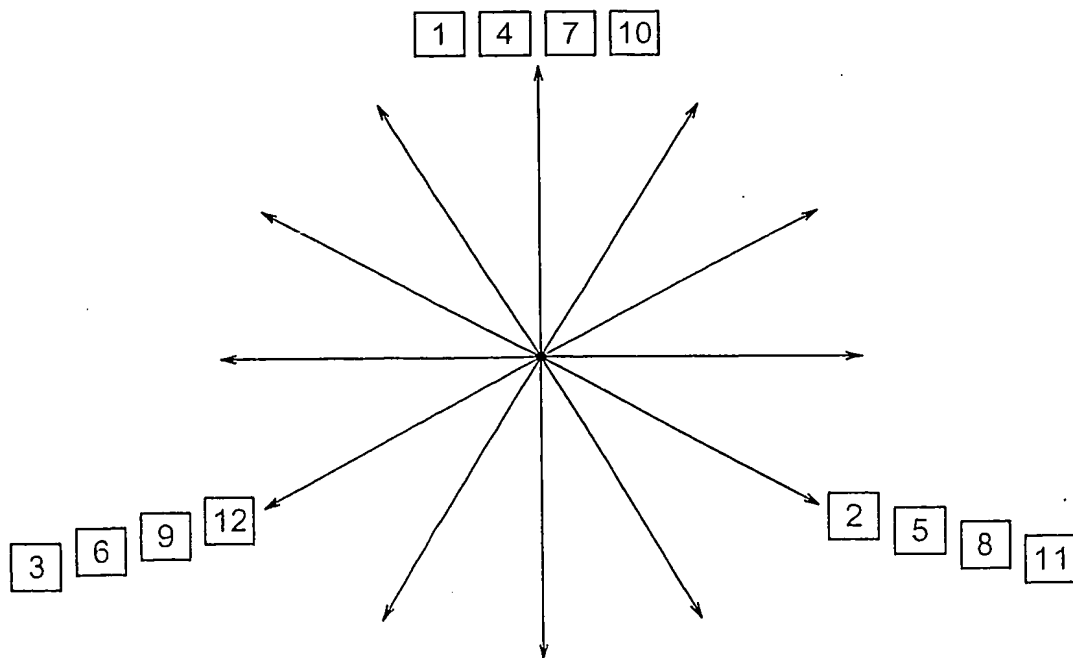


FIG. 61



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FIG. 62

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
U-PHASE WINDING	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V-PHASE WINDING	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0
W-PHASE WINDING	0.0	0.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0





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FIG. 64

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
U-PHASE WINDING	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0
V-PHASE WINDING	1.0	0.0	0.0	1.0	0.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0
W-PHASE WINDING	0.0	1.0	0.0	1.0	1.0	0.0	1.0	0.0	1.0	0.0	0.0	1.0

FIG. 65

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	1.0
$\alpha$ -PHASE WINDING	0.4082	0.0000	0.8165	0.0000	0.4082	0.0000	-0.4082	0.0000	-0.8165	0.0000	-0.4082	0.0000
$\beta$ -PHASE WINDING	0.7071	0.0000	0.0000	0.0000	-0.7071	0.0000	-0.7071	0.0000	0.0000	0.0000	0.7071	0.0000

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FIG. 66

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
$\alpha$ -PHASE WINDING	0.4082	0.4082	0.8165	0.8165	0.4082	0.4082	-0.4082	-0.4082	-0.8165	-0.8165	-0.4082	-0.4082
$\beta$ -PHASE WINDING	0.7071	0.7071	0.0000	0.0000	-0.7071	-0.7071	-0.7071	-0.7071	0.0000	0.0000	0.7071	0.7071

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FIG. 67

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0	1.0	1.0	-1.0	-1.0
$\alpha$ -PHASE WINDING	0.4082	-0.4082	0.8165	-0.8165	0.4082	-0.4082	-0.4082	0.4082	-0.8165	0.8165	-0.4082	0.4082
$\beta$ -PHASE WINDING	0.7071	-0.7071	0.0000	0.0000	-0.7071	0.7071	-0.7071	0.7071	0.0000	0.0000	0.7071	-0.7071

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FIG. 68

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	50	50	-50	-50	50	50	-50	-50	50	50	-50	-50
$\alpha$ -PHASE WINDING	61	0	122	0	61	0	-61	0	-122	0	-61	0
$\beta$ -PHASE WINDING	106	0	0	0	-106	0	-106	0	0	0	106	0

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FIG. 69

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	50	50	-50	-50	50	50	-50	-50	50	50	-50	-50
$\alpha$ -PHASE WINDING	61	61	122	122	61	61	-61	-61	-122	-122	-61	-61
$\beta$ -PHASE WINDING	106	106	0	0	-106	-106	-106	-106	0	0	106	106

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FIG. 70

TEETH NUMBER	1	2	3	4	5	6	7	8	9	10	11	12
EXCITATION WINDING	50	50	-50	-50	50	50	-50	-50	50	50	-50	-50
$\alpha$ -PHASE WINDING	61	-61	122	-122	61	-61	-61	61	-122	122	-61	61
$\beta$ -PHASE WINDING	106	-106	0	0	-106	106	-106	106	0	0	106	-106



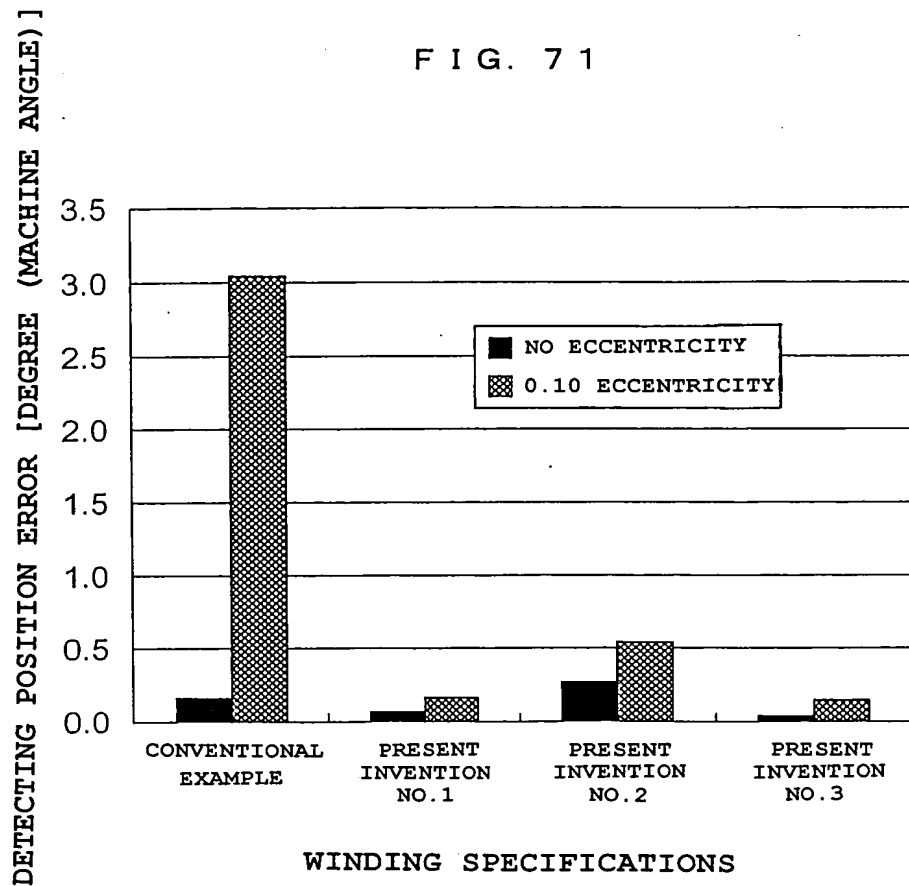


FIG. 72

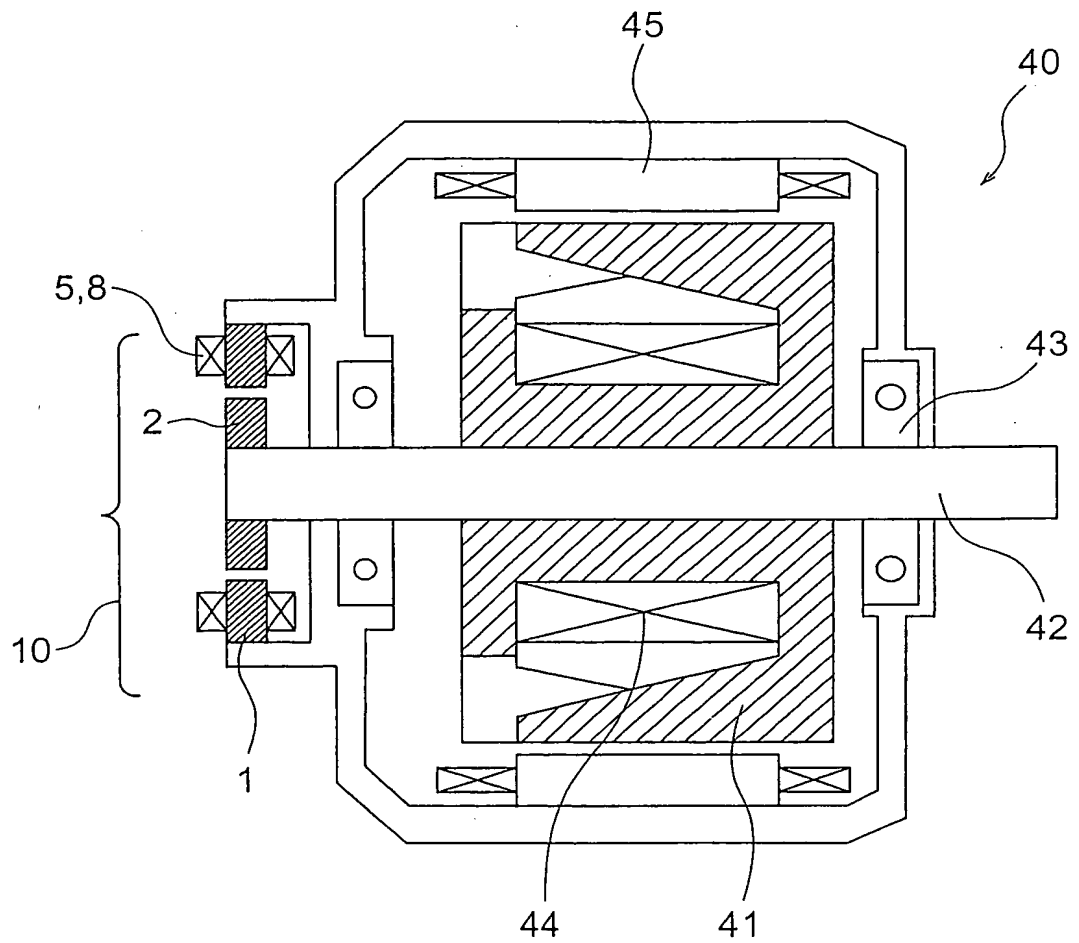


FIG. 73

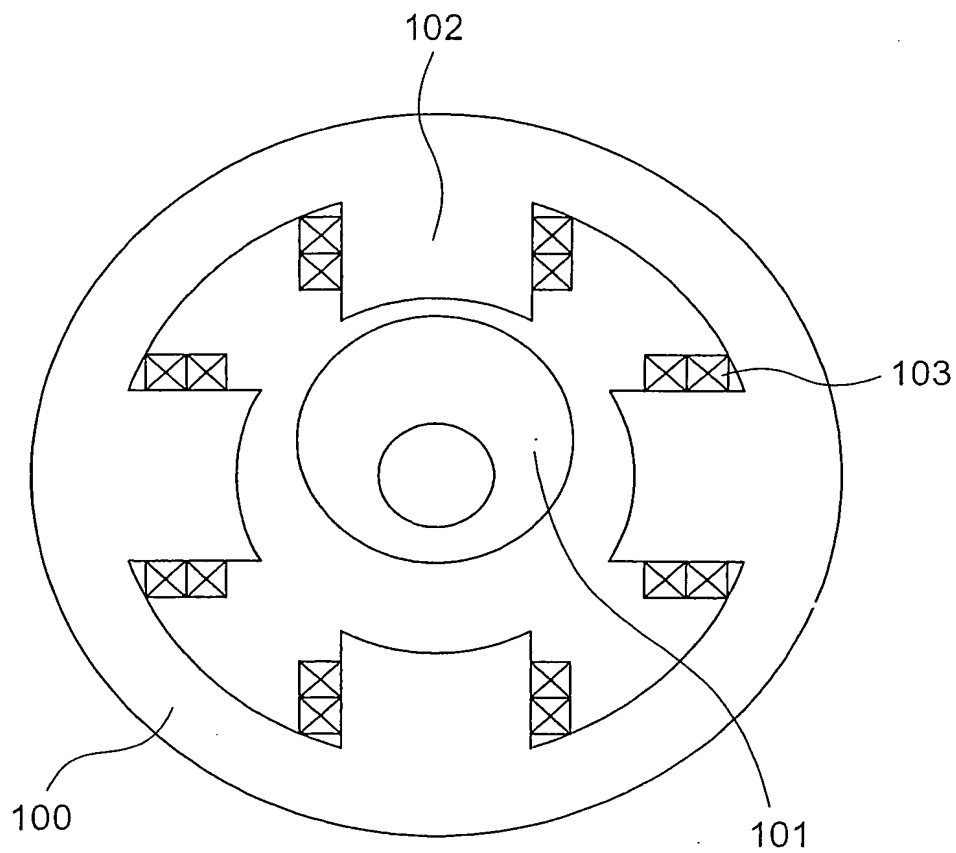


FIG. 74

